YUDIN, V. M., POLYAKOV, V. D., and SMOLENSKIY, G. A.,

"Investigation of New Magnetically Ordered Systems."

report presented at the Symposium on Ferroelectricity and Ferromagnetism, Leningrad, 30 May-5 June 1963.

ACCESSION NR: AP4023390 **S/0048/64/02**8/003/0451/0453

AUTHOR: Yudin, Y.M.

TITLE: Weak ferromagnetism of BiFeO3 /Report, Symposium on Ferromagnetism and Ferroelectricity held in Loningrad 30 May to 5 June 19837

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.3, 1984, 451-453

TOPIC TAGS: complex ferrite, bismuth ferrite ferromagnetism, weakly ferromagnetic antiferromagnetic material, BiFeO3

ABSTRACT: The magnetic properties of the solid solution 0.9BiFeO3-0.1Pb (Fe1/2Nb1/2) O3 were investigated with a magnetic balance, employing the Faraday method. The investigation was undertaken because BiFeO3 is known to have the perovskite structure with one ferric ion in the unit cell and shows the sharp maximum in the magnetic susceptibility at the Neel point characteristic of antiferromagnetic materials ing weak ferromagnetic properties, and yet it has not been possible to observe the spontaneous magnetization. Neutron scattering investigations have shown that Bireco. has the type G magnetic structure and has a superstructure due to displaced oxygen. Pb(Fe1/2Nb1/2)03 is antiferromagnetic and has a single perovskite type unit cell,

ACCESSION NR: AP4023390

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rhombohedral below the ferroelectric Curie point (120°C) and cubic above it. The. material was produced by solid state reaction of chemically pure Nb2O5 and reacent grade pure Bi2O3, Fe2O3 and PbO. The polycrystalline samples were annealed at \$50°C for three hours, and an x-ray study showed them to be true solid solutions. Magnetic susceptibility measurements showed antiferromagnetic ordering to occur at 6100% Near this temperature, spontaneous magnetization occurred, but none could be observed at significantly lower temperatures. After the samples had been cooled from above the Neel point to liquid nitrogen temperatures in an 8 kOe magnetic field, however, a spontaneous magnetization of about 0.03 gauss cm3/g was observable at low temperatures. The magnetic orientation produced by this treatment was stable in time and could be destroyed by heating above the Neel temperature and cooling in the absence of a field. The spontaneous magnetization observed cannot be ascribed to ferrimagnetism due to the Fe and Nb ion, for the Nb concentration is too small and there is no Fe-Nb ordering in pure Pb(Fe1/2Nb1/2)03. It is concluded, therefore, that BiFeO3 is weakly ferromagnetic. It is suggested that the effect of the addition of a small quantity of Pb(Fe1/2Nb1/2)O3 is to reduce the magnetic rigidity of the BiFeO3 and thus make it possible to observe the spontaneous magnetization. "The author expresses his gratitude to Professor G.A. Smolenskiy for his interest in the work and discussion of the results, to Ye.S.Sher for preparing the samples, and

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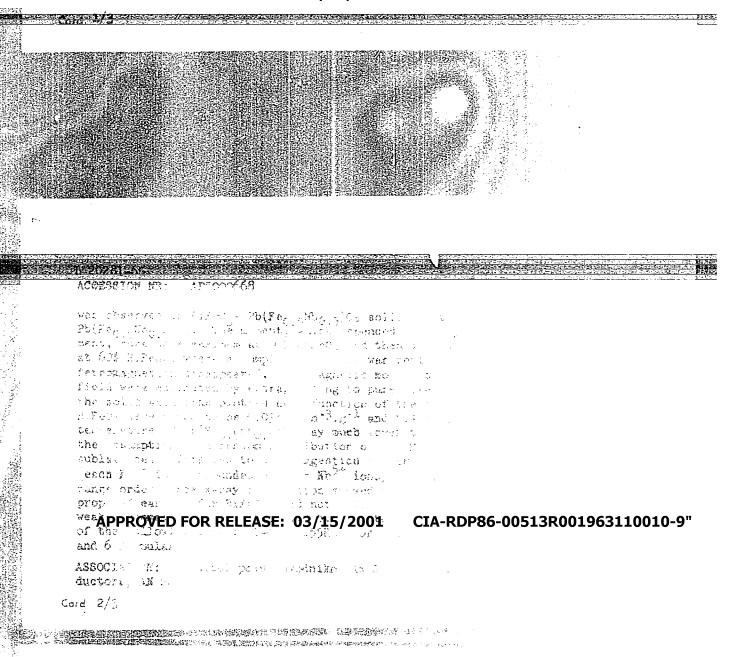
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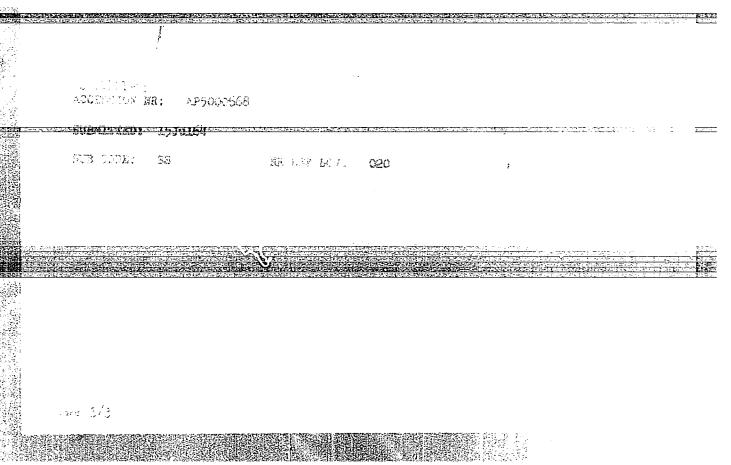
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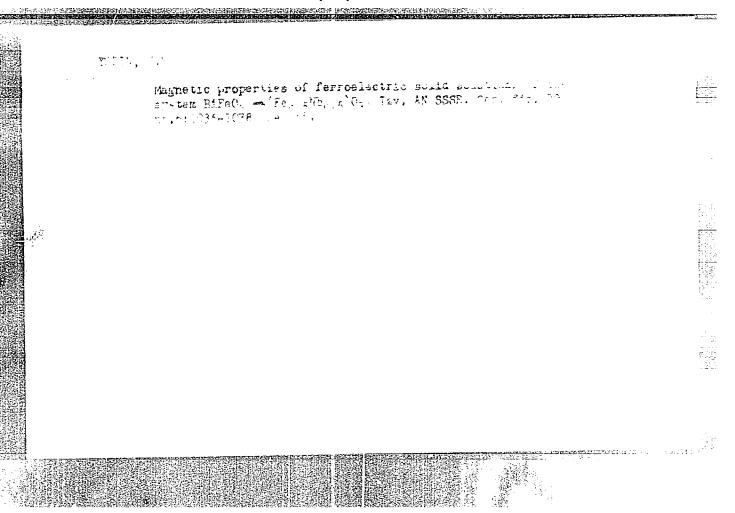
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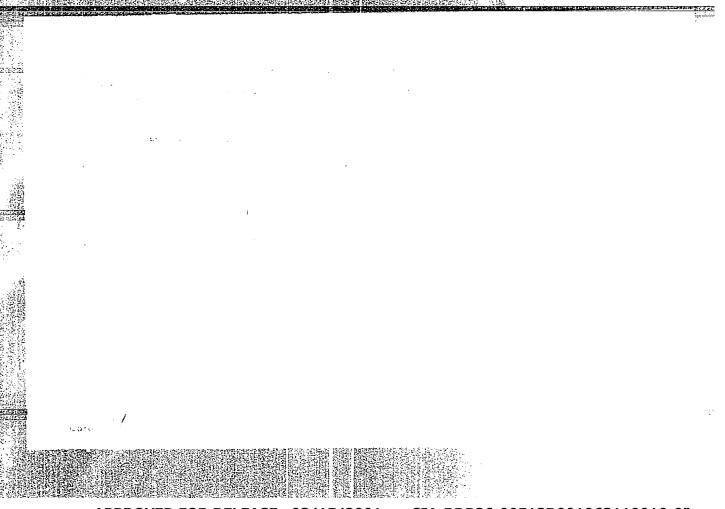
ABSTRACT: The study was couried out on polyerystableing was been atmosphere of a program and rows temperature of a program and rows temperature of a program of Park Market and Mar



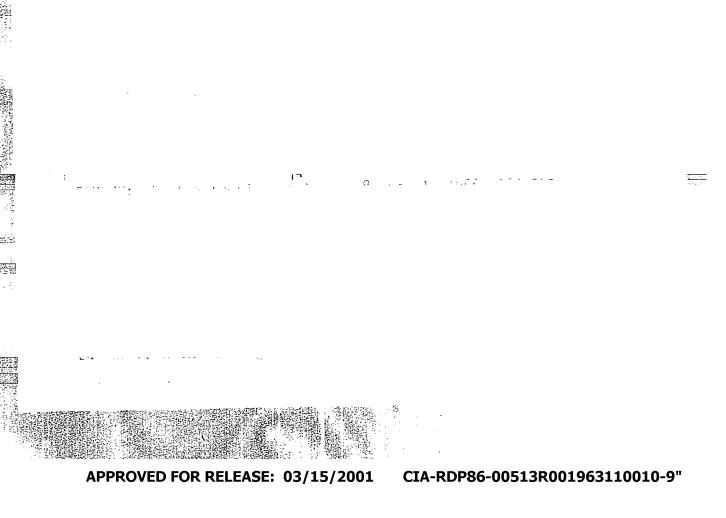


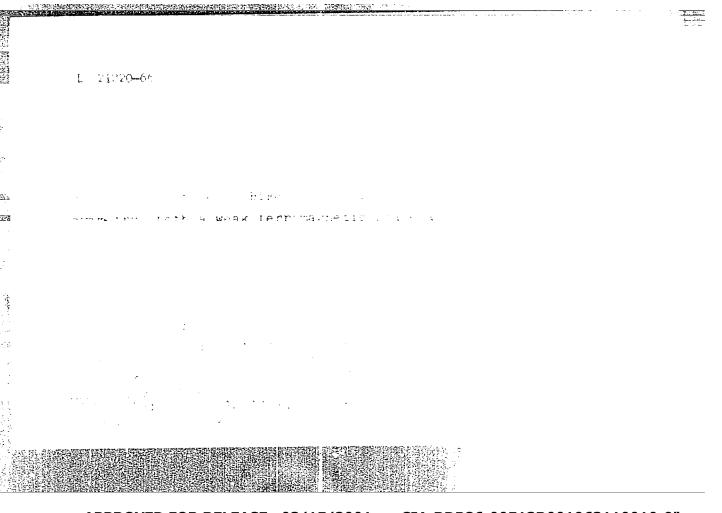
Solving the heat-conductivity problem for a semifinite body at a variable heat-transfer ratio. Inch. - fiz. zhur. 7 no.120 90-94 D'64 (MIRA 1802) 1. TSentral nyy aero-gidrodinamicheskiy institut, Moskve.











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AUTHOR: Krivosheya, V. Ye.; Yudin, V. M.

ORG: Ural Chemical Machinery Plant (Uralkhimmashzavod).

TITIE: New guns for manual argon shielded arc welding of titanium articles

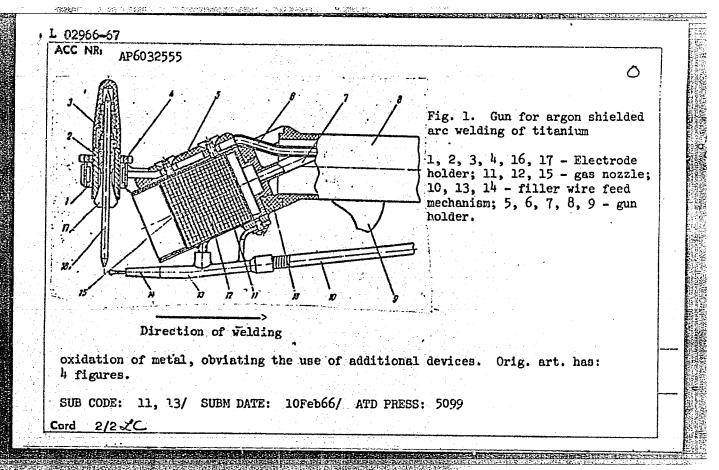
SOURCE: Avtomaticheskaya svarka, no. 9, 1966, 54-56

TOPIC TAGS: titanium, welding technology, welding equipment, welding gun, argun thicked arc welding

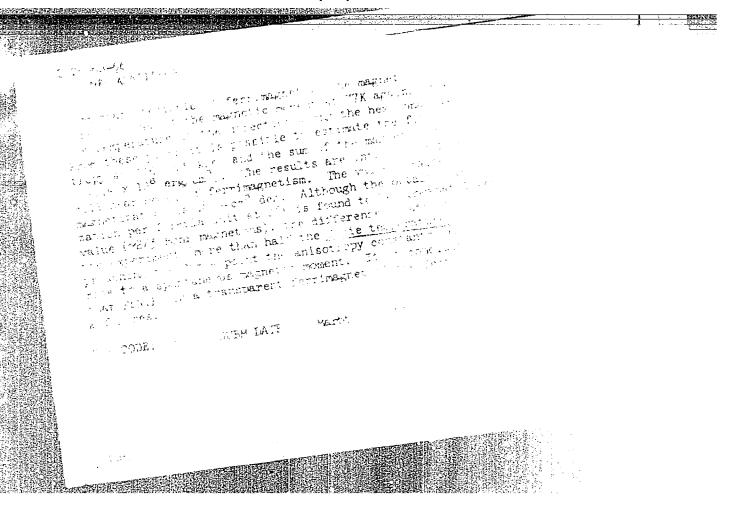
ABSTRACT: Two guns for manual argon shielded arc welding of titanium have been developed. The salient feature of both guns is the gas-nozzle diameter (30-50 mm) which produces a wide laminar low-velocity gas stream extending up to 120 mm from the tip of the nozzle. Welding is performed with the argon flow directed against the direction of welding. The stream of argon spreads over the welded joint and adjacent hot zone, protecting them from oxidation. One gun (see Fig. 1) is equipped with automatic feed of the filler wire. It differs from standard guns in that the electrode (16) and gas nozzle (15) are separated: with the electrode in the vertical position, the gas enters the welding zone at an angle of 25-30°. Filler wire is fed automatically through the nozzle (14). The new welding guns simplify the process of welding titanium alloys and give adequate protection against

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SCORE PER 19 1 AUTHOR: Smolenskiy, G. A.: Yudin. V. M. Symilan F. P. Advisor (a) The Company of the Compa The blamparent nexagonal ferrimagnet maya Compared to the contract of the part of the stage of the Problems, who have been altered COREC CARD CONTROL BOARD FAR FOR 18M, CARDES COMMERCE CONTROL this setting, $r^{(i)}$, the imposing, $r^{(i)}$ Assimation times invertigate to the paramagne to the paramagnetic to the paramagnet transition temperature. The Site of Camplels have position react. A of MANC. They are thanky with leresting teature that in the temperature interval in a color continuously from bright green to pink. The ... exceeds 1011 throom, and the dielectric constant of the perfect crystair (1 x 5 x 5 mm) without cleavage. wase. The dependence of the paramagnetic cuscus: : 15 🗻 🕹



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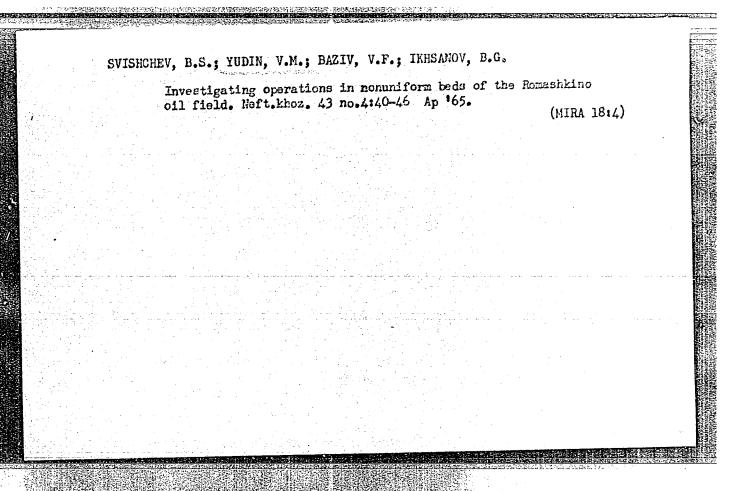
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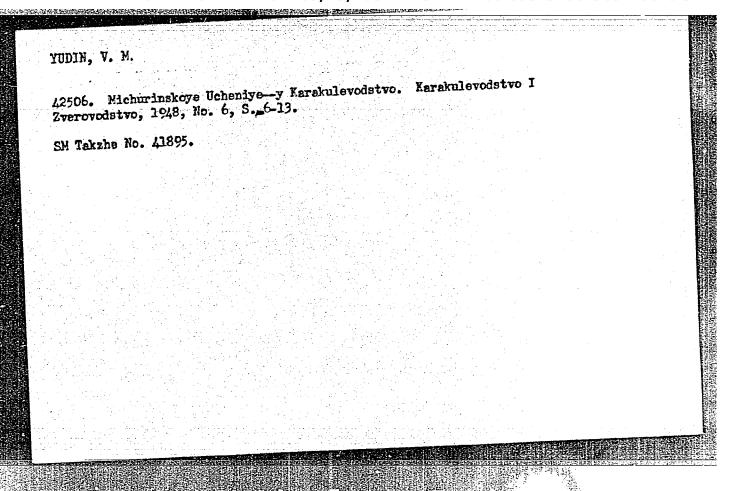
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ASSOCIATION: Teentral'nywy aero-gidrodinamicheskiy institut Central Aerohydrodynamics Institutu)

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YUDIN, V. M.

All-Union Institute of Animal Husbardry, "An account of the meeting of the Scientific Council of the All-Union Institute of Animal Husbardry on the 19th and 20th of August, 1948, devoted to a summary of the meeting of the All-Union Academy of Agricultural Science imeni V. I. Lenin, according to the report of academician T. D. Lysendo "On the position of biological science" and on the measures in line with introduction of the Michurin tendency in zootechnical science (Reports of I. M. Kuznetsev, S. S. Petrov, and V. M. Yudin, discussions in line with the report and resolutions of soviet science), Vestnik zhivotnovodstva, 1948, Issue 6, p. 3-102.

SO U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

YUDIN, V. M. "Michurinist studies as a theoretical basis for the breeding of Yudin, V. M. "Michurinist studies as a theoretical basis for the breeding of agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the conference of the All-Union agricultural animals", (A short stenographic report to the confer

YUDIN, V. M. (Co-author)

See: KOTOV, M. I.

Yudin, V. M. and Kotov, M. I. "The effect of feed factors on the quality of the young of karkul sheep," Karakulevodstvo i zverovodstvo, 1949, No. 2, p. 9-18.

Sor U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949)'

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YUDIN, V. M.

Agriculture

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YUDIN, V. M.

Agriculture

Album on the judging of Karakul sheep, Moskva, Vnestorgizdat, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED

- 1. YUDIN, V. E.
- 2. USSR (600)
- 4. Sheep Breeding
- 7. Basic principles of breeding work in sheep raising. Trudy VIZh 20 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

YUDIN, V. M.

Karakul Sheep

"Handbook for selection of karakul lambs."

Reviewed by I. Ya. Aver' Yanov. Kar. i zver. 5

No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952, UNCLASSIFIED

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 Variation in heredity and vitality of harakul shoop depending on two of parents. Sov. Zootekh. 7 no. 4, 1952.
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YUDIN, V. M. (Acad.)

Stock and Stockbreeding

Principles and methods for improving breeds of farm animals. Sov. zootekh. 8 nc. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

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Name: YUDIN, Vadim Mikhaylovich

Dissertation: Methods of Breeding of Black Astrakhan

Sheep

Degree: Doc Agr Sci

Affiliation: /not indicated/

7 Mar 56, Council of the All-Union Sci Res Inst of Animal Husbandry Defense Date, Place:

Certification Date: 28 Apr 56

Source: BMVO 4/57

USSR / Farm Animals. Small Horned Stock.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54782.

Author

Inst

: Yudin, V. M., Brigis, O. I. : Not given. : Methodical and Organizational Problems in Title

Karakul Breeding.

Orig Pub: Karakulevodstvo, 1957, No 6, 3-12.

Abstract: No abstract.

Card 1/1

LYSENKO, T.D.; PAPANIN, I.D.; POZDNYAKOV, Ye.V.; VARUNTSYAN, I.S.; PRZZENT, I.I.; LXPIKHIN, A.V.; GRIBANOV, R.N.; YUDIN, V.M.; GERCHIKOV, N.P.; KORYAZHNOV, V.P.; VSYAKIKH, A.S.; IL'INA, Ye.D.

In memory of Petr Aleksandrovich Manteifel'. Agrobiologiia no. 3:453-454 My-Je '60. (MIRA 13:12) (Manteifel', Petr Aleksandrovich, 1882-1960)

MDIN, V.M., akademik (Moskva); BRIGIS, O.I., kand.sel'skokhozyaystvennykh nauk (Moskva)

Breeding work in karakul sheep raising. Agrobiologiia no. 3:410-425 My-Je '61. (MIRA 14:5)

1. Vsesoyuznava akademiya sel'skokhozyaystvennykh nauk imeni Lenina (for Yudin). (Karakul sheep breeding)

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Equipment for I-ray diffraction microscopy. Met. 1 catallowed.
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SCURCE CODE: UR/0181/66/008/010/2965/2969

AUTHOR: Smolenskiy, G. A.; Yudin, V. M.; Syrnikov, P. P.; Sherman, A. D.

ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut policy experies

TITLE; The transparent hexagonal ferrimagnet RbNiF3

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2965-2969

TOPIC TAGS: rubidium compound, magnetic property, magnetic susceptibility, magnetic anisotropy, Curie point, magnetic structure

ABSTRACT: The purpose of the investigation was to study the magnetic property

single-crystal RbNiF3, both above and below the magnetic-transition temperature view of the fact that they were hitherto investigated only in the paradequal in single-crystal form. Transparent RbNiF3 crystals with low cielest be of interest for modulation of light beams in microwave devices The single crystals were obtained by exchange decomposition at ...

magnetic properties were investigated with a magnetic ballance by in fields from 2 - 14 kDe. The apparatus was described earlier

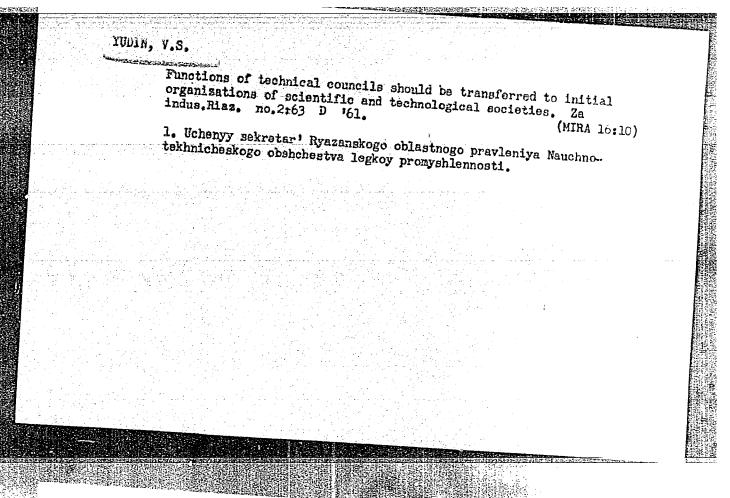
and was modified to accommodate anisotropic crystals. The reciprocal paymetre ceptibility was measured as a function of the temperature and the magnetic-more ponents were determined as functions of the field intensity at different temperature The results confirm that RbNiF3 is a ferrimagnet of the ferroxplan type with a line

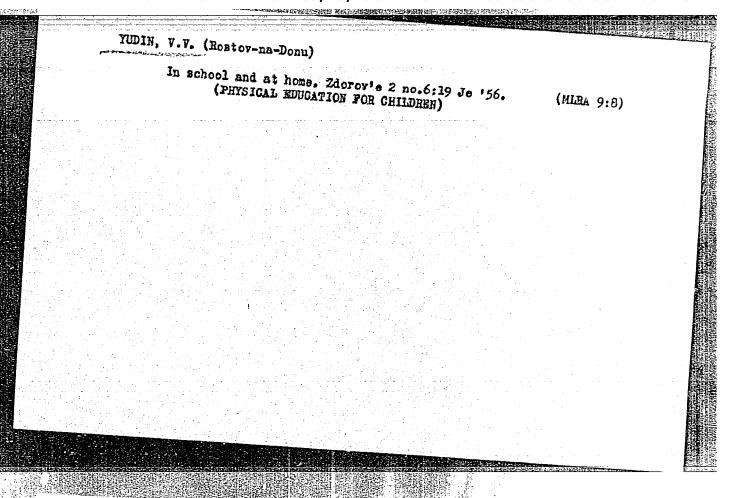
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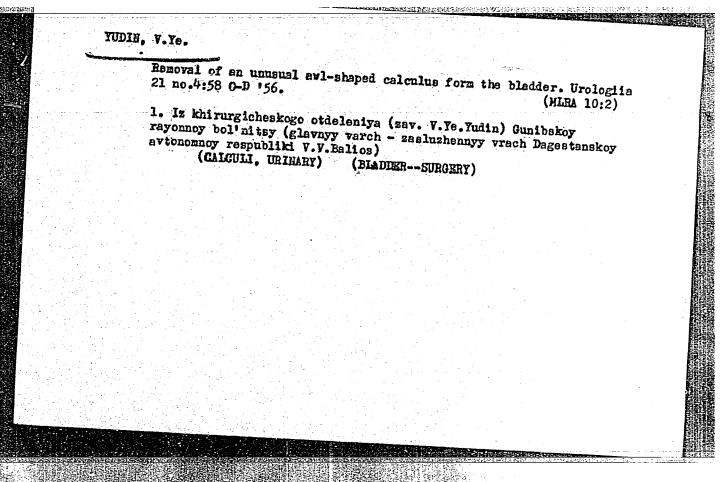
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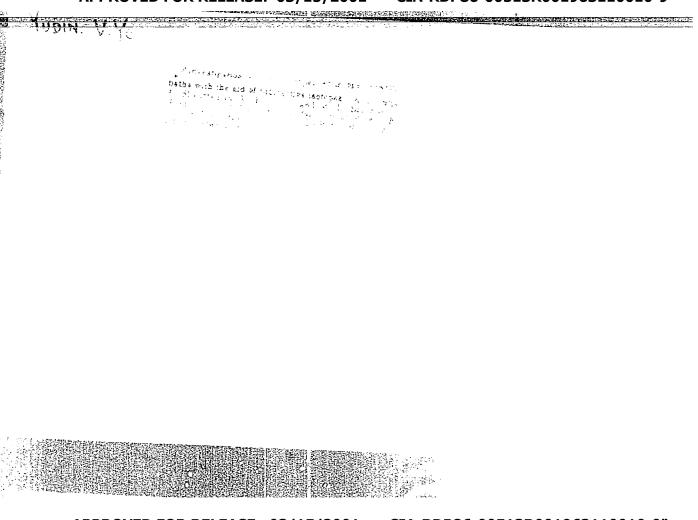
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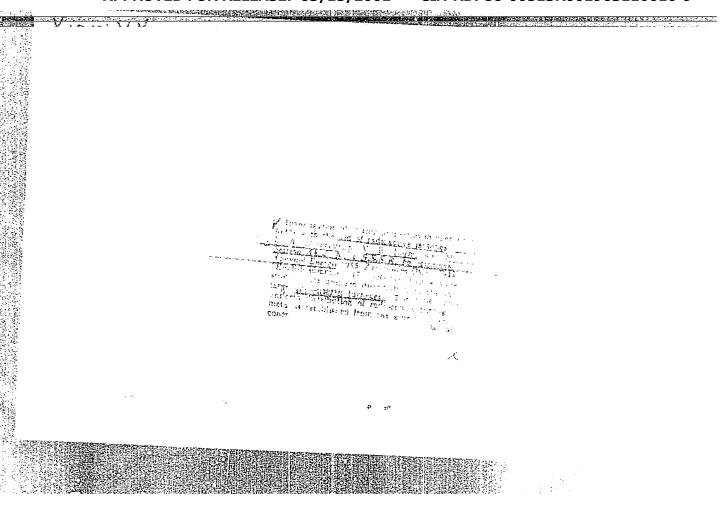




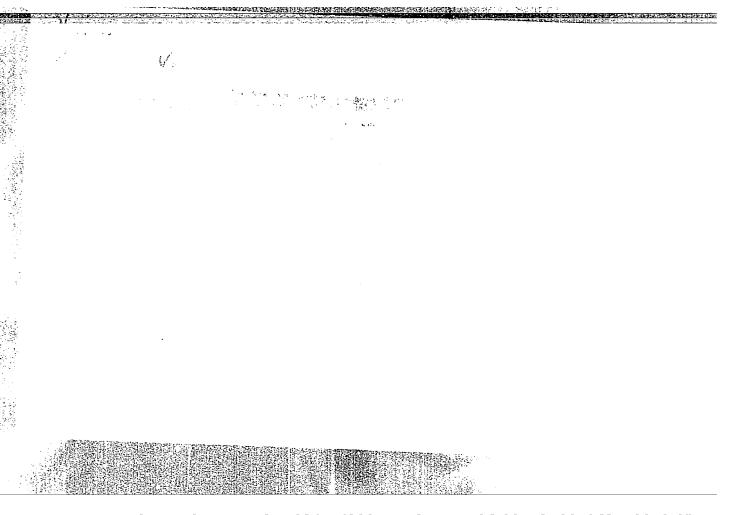
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YUDIN, V.Ye.; SAZONOV, M.L.; OSIPOV, A.I.

Apparatus for measuring the radioactivity of metal samples.
Znv.lab.21 no.ll:1384-1385 '55. (MIRA 9:2)

1.Institut metallovedeniya i fiziki metallov TSentral'nogo nauchno-issledovatel'skogo instituta tekhnologii chernoy metallurgii.
(Radioactivity—Heasurement)

Junin, V 15.

137-58-1-2109

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 286 (USSR)

AUTHORS: Osipov, A. I., Kozhevnikov, I. Yu., Judin, V. Ye., Sazanov, M. L., Bul'skiy, M. T., Alimov, A. G., Skrebtsov, A. M., Rebenko, A. P.

TITLE: A New Method for Speedy Analysis of Slag for Phosphorus by Means of Radioactive Tracers (Novyy metod ekspress-analiza shlaka na fosfor s primeneniyem radioaktivnykh indikatorov)

PERIODICAL: V sb.: Fiz. -khim. osnovy proiz-va stali. Moscow, AN SSSR, 1957, pp 82-93. Diskus. pp 160-187

ABSTRACT: A method has been developed for speedy analysis of slag for P₂O₅ by means of radioactive P (I). The analysis requires 5-7 min. The method is accurate to within 5-6 percent (rel.). The consumption of material is 0.04-0.05 millicurie per t of metal. To determine P₂O₅, I is introduced into the heat in a mixture with powdered Fe. The mixture is placed in a Cu ampoule and the I with the Fe form ferrophosphorus during the period of heating and fusion. This then undergoes uniform dissemination throughout the volume of the heat. Determination of P₂O₅ by radiometry requires one tagged sample in which the P₂O₅ is

A New Method for Speedy Analysis of Slag for Phosphorus (cont.)

determined chemically. A graph showing determination of P2O5 by radiometry as compared with the data of chemical analysis is presented. The employment of radiometric analysis of slag for P2O5 makes it possible to take and analyze a large number of samples of slag in the course of a heat.

1. Slag analysis—Processes

K. K.

Card 2/2

DYKHNE, A.M., inzhener; OSIPOV, A.I.; SHVARTSMAN, L.A.; YUDIN, V.Ye. Formula for calculating the time for the equalization of the competition of the bath in open-hearth furnaces. Zav. lab. 23 no.4:506. (MLEA 10:6)				
	1. Kusnetskiy metallurgicheskiy kombin (Open-hearth pro	est (for Dykhne).		
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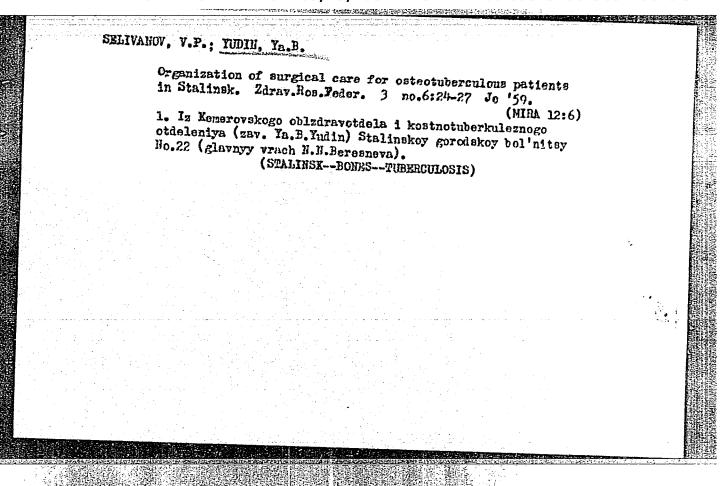
OSIPOV, A.I., kand.tekhm.nauk; SHVARTSNAN, L.A., doktor khim.nauk;

UDIN, V.Te.; SAZONDY, H.L.

Uniform distribution of small additions in slag during steel smelting in a 350-ton furnace, Probl.metallored, i fiz.net. no.6:318-325 '59.

(Steel--Metallurgy) (Calcium--Isotopes)

YUDIN, Ya. Record of t Society of 87-90 Ap :	he Plenum of the Board Dermatovenereologists. 65.	of the All-Union Scientific Vest. derm. i ven. 39 no.4:	
Record of t	he Plenum of the Board Dermatovenereologists. 65.	of the All-Union Scientific Vest. derm. i ven. 39 no./:	
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Surgery in healing	tuberculous coxiti	5 Sam	
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(TUBERCULOS	kogo otdeleniya (za tsy No.22 (glavnyy SIS, OSTEOARTICUIAR (Rus))	v zasluzhenny vrach N.H. Beres surgery,	y vrach ESPSE S. neva) g. Stalingha.
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	Surgical therapy in tuberculous spendylitis. Probl.tm no.6159-65 160.	.trb. 38 (MIRA 13:11)	
general de la composition de la compos	1. Iz kostnotuberkulezmogo otdeleniya (zav. Ya.B. Yud. No.22 Stalinska (glavnyy vrach N.N. Beresneva). Nauch ditel' - prof. N.I. Krakovskiy. (SPINE—TUBERGULOSIS)	in) bol'nitsy nyy rukovo-	

Surgical treatment of tuberculosis of the sacroiliac joint.
Ortop.travm.i protez. no.6:20.24 '61. (MIRA 14:8)

1. Iz kostnotuberkuleznogo otdeleniya (zav. - Ya.B. Yudin)
bol'nitsy No.22 (glavnyy vrach N.N. Beresneva) g. Stalinska.

(SPHRE.-TUBERCULOSIS)

YUDIN, Ya. B.

Some characteristics of the surgical treatment of thoracolumber tuberculous spondylitis complicated by draining abscesses. Khirurgiia no.2:112-115 62. (MIRA 15:2)

1. Iz kostnotuberkuleznogo otdeleniya (zav. Ya. B. Yudin) bol'nitsy No. 22 (glavnyy vrach N. N. Beresneva) Novokuznetska. Nauchnyy rukovoditel' raboty - prof. N. I. Krakovskiy.

(ABSCESS) (SPINE-TUBERCULOSIS)

NUDIN, Ya.B. (Stalinsk, Kenerovskaya obl., ul. Kutuzova, d.7, kv.50)

Surgical treatment of tuberculosis of the thoracic segment of the spine. Vest.khir. 87 no.11:72-76 N *61. (MIRA 15:11)

1. Iz kostno-tuberkuleznogo otdeleniya (zav. - Ya.B. Yudin) bol'nitsy No.22 g. Stalinska. (SPINE-TUBERCULOSIS)

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BOLDIN, K.M. (Yaroslavi); DROZDOVA, Z.S.; LEVIN, R.I.; VAYSMAN, L.A.

(Kuybyshev-obl.); PODDSINOVEKIY, V.V.(Kazani); GAYFULLINA, F.A.

(Kazani); U.Y.IN, X.T.(Kazani); FAZUMLJALIY, T.A.

DEL'FER, J.A., dotsent (Obr'kiy); MANUL, V.A.

M.B., dotsent; Mel'NIJHUK, S.P., kand.medinaux; Malini, STAROVEROV, A.T. (Saratov); SURIN, V.M.; PEROSEMKOV, J.R. (Uru'su, Mordovskoy ASSR); MURAV'YEV, M.F.(Izhevsk); KUZ'MIN, V.I.(Batyrevo, Chuvashskoy ASSR); SITDYKOV, E.N.(Kazani); YUDIN, Ya.B.(Novokulnetsk)

Short reports. Kaz.med.zhur. no.4:81-91 J1-Ag '62. (MIRA 15:2)

(MEDICINE--ARSTRACTS)
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YUDIN, Ya.B., kand.med.nauk Early resections in osteoarticular tuberculosis. Probl.tub. no.7:51-55 '62. (MIRA 15:12) 1. Iz kafedry travmatologii i ortopedii (zav. - prof. L.G., Shkol'nikov) Novokuznetskogo instituta usovershenstovaniya vrachey (dir. - dotsent G.L.Starkov) i kostno-tuberkuleznogo klinicheskogo sanstoriya No.5 (glavnyy vrach M.G.Sekis: (BONES-TUBERCULGEIS) (JOINTS-TUBELLULLE)

YUDIN, Ya.B., kand.med.nauk (Novokuznetsk, Kemerovskoy oblasti, ul. Kutuzova, d.7, kv.50)

Abstracts of articles received by the editors. Ortop., travm.i protez. 24 no.9:48 S *63. (MIRA 17:4)

1. Iz kafedry travmatologii i ortopedii (zav. - prof. L.G.Shkol'ni-kov) Hovokuznetskogo gosudarstvennogo institut dlya usovershenstvo-vaniya vrachey (rektor - dotsent G.L.Starkov) i kostnotuberkuleznogo klinicheskogo sanatoriya No.5 (glavnyy vrach - M.G.Bekshi).

CIA-RDP86-00513R001963110010-9 "APPROVED FOR RELEASE: 03/15/2001

YUDIN, Ya.B., kand, mad, nauk (Novokuznetsk, Kemarovskoy oblasti, ul. Kutuzova, d.7, kv.50)

Arthroplasty and intra-articular necrectory in tuberculosis of the elbow joint. Ortop., travm. i protez. 25 no.9:34-39 S '64. (MIRA 18:4)

1. Iz kafedry travmatologii i ortopedii (zav. - prof. L.G.Shkol'nikov) Novokuznetskogo instituta usovershenstvovaniya vrachey (rektor - dotsent G.L.Starkov) i kostno-tuberkuleznogo klinicheskogo sanatoriya (glavnyy vrach - M.G. Bekush).

YUDER, Fa.R., kond. wand. nauk

Rerly intra-articular necrectomy in tuberculous sozitie. Probl. tub.

42 no.11:14-18 164.

1. Kafedra travmatologii i ortopedii (zav. - prof. L.G.Shkol'nikov) Novokuznetskogo instituta usovershenstvovaniya vrachey i kostnotuberkuleznyy klinicheskiy sanatorii Nr.5 (glavnyy vrach M.G. Bekish).

(MIRA 18:8)

SHROL'NIKOV, L.G., prof. (Novokumnatsk, Kamerovskoy obl. prespekt Marklurgev, d. 34, kv.27); MUDIN, Ya.J., vant. med. nauk

Designation and classification of mobilizing operations in osteoarticular tuberculosis. Ortop., travm. 1 protez. 26 no.7;25-31 Jl 1, c.

1. Iz Mafedry travmatelegii i ortopedii (zav. - prof. L.G.Shko'lniken)
Novokumnatskopo instituta usomershenstmovaniya prothey (re)

G.I.Starkov).

YUDIN, Ya. L.

"Qualitative Indices of the Work of Dermate-Venereological Institutions," p. 58

Handbook on the Organization of the Control of Venereal and Infectious Skin Diseases, Moscow, Medgiz, 1957 edited by N. M. Turanov and A. A. Studnitsin

with G. I. Yegorov, "The Organization and Methods of Controlling Pyodermatoses in Industry and Among Agricultural Workers," p. 129, ibid.

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Organizatsiia kapital'nogo stroitel'stva na mashinostroitel'nykh zavodakh. Moskva, Mashgiz, 1949. 203 p.

Organization of main construction work in meahine-building plants.

DLC: TH4541.18

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

YUDIN, JA. M.

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diagrs.

Instructions for stokers.

DLC: TJ289.19

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

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Mechani	c's handbook	on steam turbin	ies of low ci	apacity, Mo	skva, Gosene	rgoizdat, 1951.	1
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YUTIN, Ya. M.

KAZIHITSKIY, M.I.; YUDIN, Ya.M.; POPOV, A.H. chlen korrespondent
Akadenii arkhitektury SSSK.

[Capital construction in the building materials industry; organisation and planning] Kapital'noe stroitel'atvo v promyshlennosti stroitel'nykh materialov; organizatsiis i planirovanie. Pod red.

A.H. Popova. Izd.2., dop. i perer. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1954. 342 p. (MLRA 7:7)

(Building materials industry) (Factories—Design and construction)

YUDIN, Takev Markovich; MIKHAYLOV, V.N., red.; POZIMYAKOV, D.A., tekhn.red.

[Establishing standards for material consumption and methods for saving materials in the construction industry] Normirovania raskhoda i puti ekonomii materialov v stroital'stva. IAroslavl'. TSentr.biuro tekhn.informatsii, 1959. 45 p. (MIRA 13:5) (Building materials)

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POPOVA, V.N., inzh.; YUDIN, Ye.A., inzh.

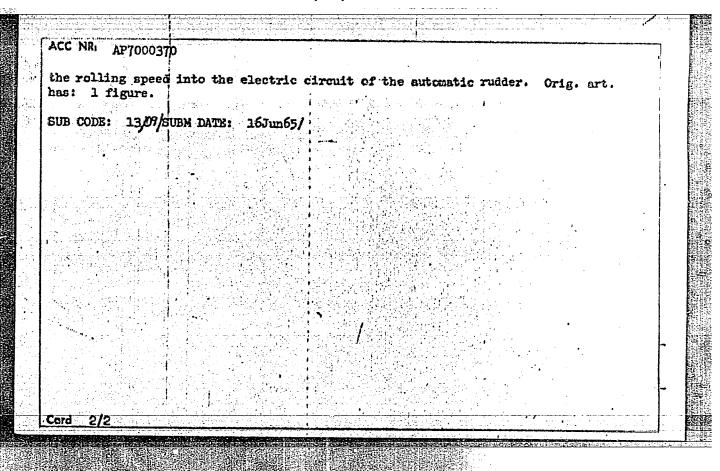
Delinting cotton seeds and their physicomechanical properties. Masl. - 2hir. prom. 27 no.8:19-22 Ag '61. (MIRA 14:8)

1. Srednezziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta zhirov (for Prpova). 2. Gosudarstvennoya spetsial'noy-konstruktorskoya byuro po khlopkoochistka (for Yudin).

(Cottonseed) (Linters)

ACC NR: AP7000370 SOURCE CODE: UR/0413/66/000/022/0158/0158 INVENTOR: Gol'din, A. I.; Smirnov, A. K.; Yudin, Ye. B. ORG: none TITLE: Device for compensating a vessel's heel against a gust of wind. Class 65, SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 158 TOPIC TAGS: marine engineering, ship component, ship merigation, marine engineering, ship component, Aproscope, electropie circuit, present tronducer AMSTRACT: An Author Certificate has been issued for a device for compensating a vessel's heel against a gust of wind, consisting of an automatic rudder with control devices and electric power supplies. To achieve partial compensation of heeling moments, decrease the dynamic healing angles during wind gusts, and assure the automatic return of the ship to its course after the gust has passed, it is equipped with a correcting device made in a form of a chamber with air vents leading in and out and containing electrical contacts and vertically movable disks. These close the appropriate contacts, depending on the wind direction, and a rotating transformer with a stator is connected to the contacts, which change current-supply polarity in relation to the position of the movable disks. A rotor is connected to the automatic rudder's electrical circuit. Also, to calculate the vessel's roll-angle speed, it is equipped with a gyroscopic device, the precession axis of which is located in the vessel's frame, with an electric transducer which feeds signals proportional to UDC: 629.12.532.5.041:629.12.014,6

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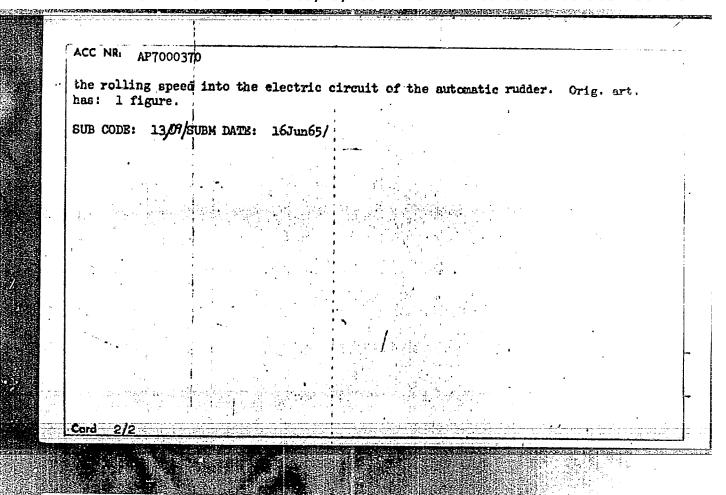
ACC NR AP7000370 BOURCE CODE: UR/0413/66/000/022/0158/0158 INVENTOR: Gol'din, A. I.; Smirnov, A. K.; Yudin, Ye. B. ORG: none TITLE: Device for compensating a vessel's heel against a gust of wind. Class 65, SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 158 TOPIC TAGS: marine engineering, ship component, ship merigation, marine engineering, ship component ABSTRACT: An Author Certificate has been issued for a device for compensating a vessel's heel against a gust of wind, consisting of an automatic rudder with control devices and electric power supplies. To achieve partial compensation of heeling moments, decrease the dynamic heeling angles during wind gusts, and assure the automatic return of the ship to its course after the gust has passed, it is equipped with a correcting device made in a form of a chamber with air vents leading in and out and containing electrical contacts and vertically movable disks. These close the appropriate contacts, depending on the wind direction, and a rotating transformer with a stator is connected to the contacts, which change current-supply polarity in relation to the position of the movable disks. A rotor is connected to the automatic rudder's electrical circuit. Also, to calculate the vessel's roll-angle speed, it is equipped with a gyroscopic device, the precession axis of which is located in the vessel's frame, with an electric transducer which feeds signals proportional to Cord 1/2 629.12.532.5.041:629.12.014.6

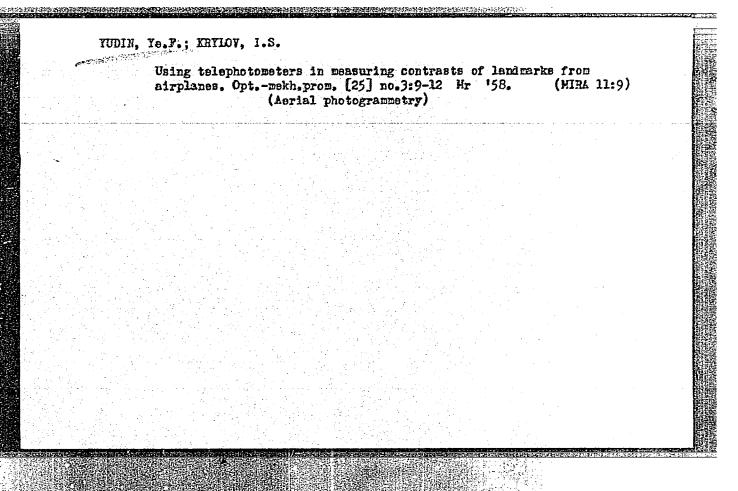
ANDRONHIKOV, K.S.; RALAKOV, V.V.; BUZHINSKIY, A.H.; BURAGO, A.N.; VERTMAN, L.A.; VISHNEVSKIY, A.A.; VOLOSOV, D.S.; GASSCVSKIY, L.H., professor; OERSHUH, A.A., professor; TEL'YASHEVICH, M.A.; YEVSTROP'TEV, K.S.; GUREVICH, M.M., professor; KOLYADIH, A.I.; KCRYAKIH, B.M.; KURITSKIY, A.L.; PAPIYANTS, K.A.; PROKOF'YEV, V.K., professor; PUTSEYKO, Ye.K.; REZUNOV, M.A.; RITYN', N.E., SAVOST'YANOVA, M.V., professor; SEVCHENKO, A.H.; SENNOV, H.I.; STOZHAROV, A.I.; FAYERMAH, G.P., professor; FEOFILOV, P.P.; TSAREVSKIY, Ye.M., professor; CHEKHMATAYEV, D.P.; YUDIN, Ye.F.; KAVRAYSKIY, V.V., professor; VAVILOV, S.I., akademik, redaktor

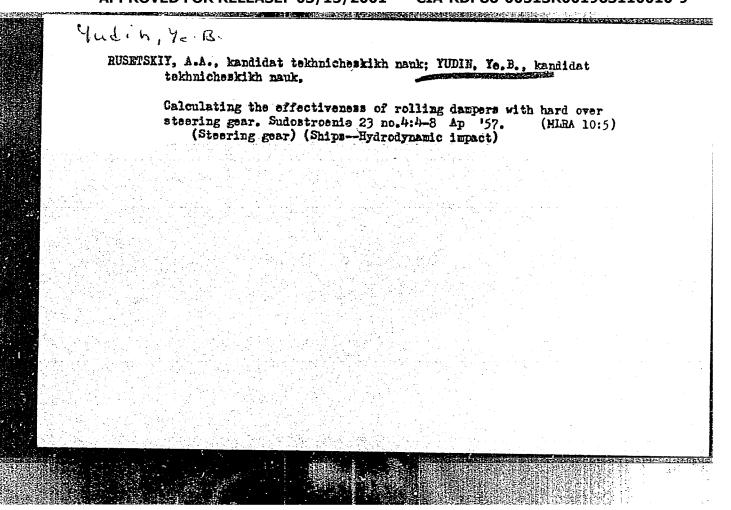
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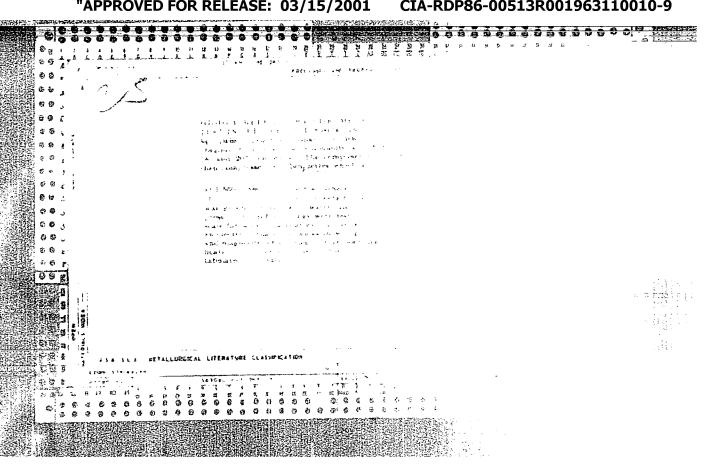
[Optics in military science] Optika v voennom dele; sbornik statei. Pod red. S.I. Vavilova i M.V. Savost'ianovoi. Izd. 3-e, zanovo perer. i dop. Moskva. Vol.2. 1948. 387 p. (MIRA 9:9)

1. Akademiya nauk SSSR. 2. Sostaviteli - sotrudniki Gosudarstvennogo Opticheskogo instituta (for all except Vavilov and Kavrayskiy)
3. Voyenno-morskaya akademiya (for Kavrayskiy)
(Optics)









Hydrodynamic characteristics of relling controlled by side runders. Sudestreenie 24 no.8-13 0 '58. (MIRA 11:12) (Ships-Hydrodynamic impact) (Stability of ships)

YUDIN, YE. I

(yezim Ivanovich)

Call Nr: TS 233.182

AUTHOR:

Yudin, Ye. I. Otlivka detaley v obolochkovyye formy (Precision Casting of Parts)

TITLE:

Gosudarstvennoye izdatel'stvo tekhnicheskoy literatury, Kiyev,

PUB. DATA:

1957, 69 pp., 1,000 copies.

ORIG. AGENCY:

None given.

EDITOR:

Editor in Chief of the Publishing House: Afonina, G.; Technical

Editor: Pisarenko, V.; Proofreader: Bobovnikova, L.

PURPOSE:

This pamphlet was written for workers of the machine construction

industry.

COVERAGE:

The author describes precision casting (also called "investment molding), the methods by which the molds and patterns are prepared, casting rejects, the methods by which the metal is forced into the molds, etc., as well as the experiences of the Khar'kovskiy zavod transportnogo mashinostroyeniya (Khar'kov Transportation Equipment Construction Plant) in regard to the production of precision cast parts. The following personalities are mentioned: Kondrat, V.,

Card 1/3

a Rumanian metallurgical engineer; Cibianu, N., a Rumanian

	metallurgical engineer, both connected with the Rumanian Transportation Equipment Plant "Steagul Roshu" ("Red Banner"). In the author's annotation the method described in this pamphlet is called new. There are 2 references, 1 Russian and 1 Rumanian, which appear in the text in the form of footnotes.				
	TABLE OF CONTENTS Forward	2			
	Methods of Producing Precision Molds and Mold Patterns	3			
	Materials used in the manufacture of precision molds Selection and preparation of the mold materials	7 12			
	Equipment required for the preparation of investment molds	16			
	Production of investment molds	21			
	Production of mold patterns	24			
1	Rejects in Precision Casting	30			
Card	Technical Process of Precision Casting in Investment Molds of the Cooling Section Tank for a T 3 3-02-011 Locomotive 2/3	32			

Precision Casting of Parts cont.	Call Nr: TS 233.182
Equipment of the Precision Casting Section	36
Pilot plant manufacturing investment molds	37
Mechanized unit manufacturing investment molds	40
Automatic units for the mass production of invest- ment molds	45
Preparation of molds before filling	50
Technical and Economic Data on the Investment Mold Casting Process	53
Instructions Regarding Safe Operation and Safety Methods	57
Forming and Mold Casting Methods Adopted at the "Steagul Roshu" Plant ALLABLE: Library of Congress	59
rd 3/3	

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 39 (USSR)

Yudin, Ye. I., Vygodskiy, I.A. AUTHORS:

New Technical Processes in the Metallurgical Industry (Novyye TITLE:

tekhnologicheskiye protsessy v metallurgicheskom proizvod-

stve.)

V sb.: Novyye tekhnol. protsessy. Khar'kov, Oblizdat, PERIODICAL:

1957, pp 5-27

Certain advances in the technical processes of "small-ABSTRACT:

scale metallurgy" at the Khar'kov Transportation Equipment Plant are set forth. O2 is used at this plant to speed the smelting of steel in electric furnaces and to heat liquid iron in cupola receivers and crucibles. The process of developing techniques for the manufacture of cast-iron crankshafts for the TE-3 Diesel locomotive, and the techniques used in casting steel ingots 13.5 t in weight, which are large for this plant. are described. A special section of the article is devoted to precision casting: investment casting, skin dry sand mold

casting, chill casting of non-ferrous metals, and also the man-

Card 1/2ufacture of forgings by drop-forging instead of open-die forg-

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137-58-4-6589

New Technical Processes in the Metallurgical Industry

ing. Under the heading "Improvement of Present Technological Processes" we find: a description of the introduction of high-speed alloys, gas-pressed head casting, and the introduction of gas carburizing instead of cementation by a solid carburizer, and other questions.

M.P.

1. Metallurgy 2. Metals--Processes--Development

Card 2/2

SOV/137-57-10-19268

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 118 (USSR)

AUTHORS: Begun, B.Ye., Kvasman, M.G., Yudin, Ye.L.

TITLE: Experiences in the Making of Cast-iron Crankshafts for Main-

line Diesel Locomotives (Opyt izgotovleniya litykh chugunnykh

kolenchatykh valov dlya magistral'nykh teplovozov)

PERIODICAL: Tekhnologich, transp. mashinostroyeniya, 1957, Nr 2, pp

12-18

ABSTRACT: The casting of crankshafts for the 2000-hp D-100 Diesel has been perfected at the Khar'kov Transportation Equipment Plant

> Shafts weighing 1740 and 1490 kg are cast from pig iron of the following % contents: C 2.2-2.4 and alloyed Mo 1, Cr 0.6 and Ni 1. On rupture, $\sigma_{b(tension)} > 35 \text{ kg/mm}^2$ and $\sigma_{b(bending)}$ > 70 kg/mm². Utilization of metal when the blank is cast is close to 47%, while only 14% of the metal can be used in forg-

> ing. Horizontal pouring is recommended in single-unit production, as inclined and vertical pouring require the construction of pouring fixtures, although they do increase the yield by 50%

relative to horizontal and reduce machining to a minimum. The optimum pouring temperature is 1360-1370°C. A thermit

Card 1/2

SOV/137-57-10-19268 Experiences in the Making of Cast-iron Crankshafts (cont.) mixture is poured over the risers. The blanks are heat-treated after roughing to relieve stress. Gamma-radiation is used to inspect for internal faults. **Card 2/2**

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CIA-RDP86-00513R001963110010-9"

CORSHKOV, A.A., doktor tekhn. nauk, prof.; VOLOSHCHENKO, M.V., kand. tekhn. nauk, Priniral uchastiye IUDIN, Ye.I., inzh.; STEPIN, F.I., kand. tekhn. nauk, retsanzent

[Cast crankshafts] Litye kolenchatye valy. Moskva, Izd-vo "Mashinostroenie," 1964. 194 p. (MIRA 17:5)

HLINOY, P.T.; FIRAGO, V.P., kand.tekhn.nauk, red.; OGLOBLIN, A.N., dotsent; IUIII, Te.M., insh.; BILINSKII, M.Ia., red.; PISKAREVA, N.H., tekhn.red.

[Technology of machining airplane engine parts] Tekhnologiio mekhanichoskoi obrabotki detalei aviotsionnykh dvigatelei. Pod red. V.P.Firago. Moskva, Goz.izd-vo obor.promyshl., 1951. 531 p. (MIRA 13:10)

1. Leningradskiy Politekhnicheskiy institut im. M.I.Kalinina (for Ogloblin). (Metal cutting) (Airplanes--Engines)

HDIN, YEFREMI

PHASE I BOOK EXPLOITATION

167

Yudin, Yefrem Markovich

Shesterennyye nasosy; osnovnyye parametry 1 ikh raschet (Gear-wheel Pumps; Basic Parameters and Their Design) Moscow, Gosud. 1zd-vo oboronnoy promyshlennosti, 1957. 139 p. Number of copies not given.

Rosenblit, S. Ya., Engr.; Ed. of Publishing House: Ed.: Sokolov, A. I., Engr.; Tech. Ed.: Lebedeva, L. A.; Reviewer: Yasinskiy, S. Ya., Engr.

This book is for design engineers, engineers of scientific PURPOSE: research institutes of machine building, and engineering and technical personnel working in the field of design, manufacture and operation of gear-wheel pumps.

The author states that in preparing this book he has COVERAGE: utilized service experience with pumps in aircraft industry where they are used in fuel supply and lubrication systems and for controlling retractable landing gears and variablepitch propellers. The following subjects are discussed: design of aircraft fuel supply pumps for high-altitude performance; design and correction of gear tooth profiles

with the use of a method developed by the author and Card 1/6

CIA-RDP86-00513R001963110010-9"

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Gear-wheel Pumps; Basic Parameters and Their Design (Cont.) 167

accepted by the Ministry of the Aircraft Industry; derivation of equations for determining pump theoretical capacity; design of pressure relieving grooves; analytical method for determining gear bearing loads and support reactions; methods and examples of pump design; and the design of special type spring-loaded floating sealing rings. The author claims that the use of such seals cuts down the leakage and increases the volumetric efficiency of a gear-wheel pump up to 95%, which approaches the efficiency of a piston pump. The book includes tables of experimental data on pumps, nomograms for selecting pumps, and charts showing viscosities of domestic oils and petroleum products. No bibliography is listed.

TABLE OF CONTENTS:

Preface

Notations and Symbols

Ch. I. Gear-wheel Pumps. Principle of Operation and Pields of Application

Card 2/6

Gear-W	heel Pumps; Basic Parameters and Their Design (Cont.)	167
Ch. II	Some Theoretical Aspects of Gear-wheel Pumps	13
1.	Determination of geometric properties of a gear tooth	11
	Methods for correcting tooth profile Equations for design of tooth profile	11 15
2.	Derivation of equation for determining the theoretical capacity of gear-wheel pumps	18
	Basic equation Second version of the equation Approximate method for determining gear module Equations for pumps having gear impellers with	, 1 9 26 29
	different numbers of teeth Equations for pumps with internal-gear impellers	30 32
3.	Means of eliminating the harmful effect of fluid trapped within the pockets formed by the teeth of gear impellers	35